

Power Cost Memorandum Fuel Cost Update

Date: December 17, 2020

Utility Name (Cert. No.) Naterkaq Light Plant (365)	Utility File No. PC10-0617K	Date Filed: November 13, 2020
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PCE AMOUNT SUMMARY	Previously Approved PC10-0617J	Staff Recommended Amount(s) and Effective Date PC10-0617K
Class Rate	<u>Date Approved:</u> September 4, 2020	December 18, 2020
Residential	\$0.2269	\$0.1773
Community	\$0.2269	\$0.1773
<input type="checkbox"/> Interim <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Interim <input checked="" type="checkbox"/> Permanent		

Prior Fuel Purchase Price: <u>\$3.4954</u>	<input type="checkbox"/> Actual <input checked="" type="checkbox"/> Weighted	New Fuel Purchase Price: <u>\$ 2.3802</u>	<input type="checkbox"/> Actual <input checked="" type="checkbox"/> Weighted
Delivery Charge: _____	Surcharge Change: Previous _____	Updated _____	

Weighted Average Fuel Price/Gal. Calculation							
	<u>Gallons</u>		<u>Price</u>				
On-hand before deliv	8,227	X	3.4954	=		28,757	
Delivered	49,999	X	2.1967	=		109,833	
	<u>58,226</u>					<u>138,590</u>	Weighted
							Average
							\$ 2.3802

Signed: Brenda Cox
Brenda Cox

Utility Financial Analyst

Commission decision re. this recommendation :

	Date (if different from 12/17/20)	I CONCUR	I DO NOT CONCUR	I WILL WRITE A DISSENTING STATEMENT *
Pickett		<u>RMP</u>		
McAlpine		<u>SM</u> SM		
Scott		<u>AGS</u> AGS		
Sullivan		<u>AS</u> DS		
Wilson		<u>JW</u> JW		

Special Instructions to Staff:

* If this column is initialed, Staff will contact the Commissioner for the statement, otherwise, dissent will simply be noted at the close of the By Direction Letter or Order.

NATERKAQ LIGHT PLANT

APPENDIX 1

POWER COST EQUALIZATION CALCULATION FOR THE PERIOD ENDING MARCH 31, 2017 Fuel Cost Update

	PC10-0617J	PC10-0617K
	Prior Staff Calculated	Utility Request Staff Recommendation
A. Total KWH Generated	1,551,776	1,551,776
B. Total KWH Sold (Appendix 2)	1,380,135	1,380,135
C. Total Non-Fuel Costs (Appendix 2)	\$266,121	\$266,121
D. Non-Fuel Cost/KWH (C / B)	\$0.1928	\$0.1928
E. Total Fuel Costs (Appendix 2)	348,178	276,134
F. Fuel Costs/KWH (E / B)	\$0.2523	\$0.2001
G. Eligible Costs/KWH (D + F)	\$0.4451	\$0.3929
H. Eligible Cost/KWH Less \$0.2063/kWh	\$0.2388	\$0.1866
I. Lesser of (h) or \$0.7937/kWh	\$0.2388	\$0.1866
J. Average Class Rates (Appendix 3)		
Residential	\$0.3437	\$0.3437
Community	\$0.3437	\$0.3437
	Class Power Cost Equalization Per kWh Payable	
K. Lesser of: (I) x 95%, or (J)		
Residential	\$0.2269	\$0.1773
Community	\$0.2269	\$0.1773
L. Funding Level in Effect	100%	100%
Residential	\$0.2269	\$0.1773
Community	\$0.2269	\$0.1773

PC10-0617K
Appendix 1

NATERKAQ LIGHT PLANT

APPENDIX 2

SCHEDULE OF ELIGIBLE POWER COSTS, SALES AND EFFICIENCY
FOR THE PERIOD ENDING MARCH 31, 2017

Fuel Cost Update

			PC10-0617J	PC10-0617K	
			Prior Staff Calculated	Utility Request	Per Staff
Non-Fuel Costs:					
A.	Personnel Expenses		137,879	137,879	137,879
B.	Operating Expenses		34,291	34,291	34,291
C.	General and Administrative		39,133	39,133	39,133
D.	Depreciation Expense		53,122	53,122	53,122
E.	Interest Expense		1,696	1,696	1,696
F.	Total Non-Fuel Costs		\$266,121	\$266,121	\$266,121
Fuel Costs:					
G.	Gallons Consumed for Electric Generation		116,013	116,013	116,013
H.	Price of Fuel: (per gallon) Weighted Average		3.4954	2.3802	\$2.3802
I.	Total Cost of Fuel (GXH)		\$405,512	\$276,134	\$276,134
J.	kWh Generated		1,551,776	1,551,776	1,551,776
K.	kWh Sold		1,380,135	1,380,135	1,380,135
L.	kWh Station Service		40,064	40,064	40,064
M.	Efficiency (J/G)	<u>Standard</u>	13.38	13.38	13.38
		≥ 12.5			
N.	Line Loss	≤ 12%	8.48%	8.48%	8.48%
(kWh Generated - (kWh Sold + kWh Station Service))/kWh Generated					

PC10-0617K
Appendix 2

Calculation of Average Class Rate per kWh

Rate Schedule: **Residential**

(1) kWh by Block	(2) Rate (\$/kWh)	(3) Surcharge If Applicable (\$/kWh)	(4) Total (\$/kWh) (2+3)	(5) Total \$ (1x4)	(6) Avg. (\$/kWh) (5)/(1)	(7) Avg. Rate (\$/kWh) - 0.2063
500	0.5500	0.0000	0.5500	275.00	0.5500	0.3437
500				275.00	0.5500	0.3437
TOTAL (A)						(E)

Computation of Community Facilities Average Rate

Rate Schedule: **Community**

	(A) Rate (\$/kWh)	(B) Surcharge If Applicable (\$/kWh)	(C) Total Rate (\$/kWh) (A+B)	(7) Avg. Rate (\$/kWh) - 0.2063
0 to ∞	0.5500	0.0000	0.5500	0.3437
Next to				
Next to				
Next to				
Next to				

Naterqak Light Plant

	Delivery Date	Gallons	Cost per Gallon	Delivery/ Mark-Up	Total Cost
Beginning Fuel Inventory		8,227			
Last Approved Fuel Cost/Gal.			\$ 3.4954		
Beginning Fuel Inventory in Gallons X Last Approved Fuel Cost/Gal. = Beginning Fuel Inventory Cost					\$ 28,757
Reporting Period Purchases	10/13/20	49,999	2.1967		109,833
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
Totals for Reporting Period Purchases on this sheet:		49,999			109,833
Grand Totals (beginning inventory plus purchases)		58,226		B	\$ 138,590

Grand Total Cost divided by Grand Total Gallons = 2.3802 Weighted Avg. Cost per gallon
Purchases: Total Cost divided by Grand Total Gallons = 2.1967 Weighted Avg. Cost per gallon

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